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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/386,183	08/31/1999	SE YONG RO	2950-0129P	1108

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EXAMINER

BOCCIO, VINCENT F

ART UNIT PAPER NUMBER

2615

DATE MAILED: 07/31/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/386,183

Applicant(s)

Ro

Examiner

Vincent F. Boccio

Art Unit

2615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on Jul 16, 2002
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5, 6, 10, 14-20, 24-26, 28, 30-42, 44-47, and 49 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 6, 10, 14-20, 24-26, 28, 30-42, 44-47, and 49 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirements.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some\* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☒ Certified copies of the priority documents have been received in Application No. 08/498,585.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other:

**DETAILED ACTION**

The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2615.

**Claim Rejections - 35 USC § 102**

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:  
A person shall be entitled to a patent unless --  
(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
2. Claims 1-3, 14-19, 24-26, 30-38, 40-42, 45-47 and 49 are rejected under 35 U.S.C. 102(e) as being anticipated by Kaloi et al. (5,511,000).

Regarding claim 1, 3, 14-19, 24-25, 31-38, 40-41, 45-47 and 49, Kaloi in Fig. 1, discloses and meets all limitations associated with a portable reproducing apparatus(Fig. 3, "SSRPD"), a R/R system(Fig. 1), method, for transferring, for recording and/or reproducing at least one of audio and video data, comprising:

wherein the portable, at least one having the recited functionality, recording and reproducing such as two SSRPDs as shown Fig. 1, "1 A& 5 A", for recording/reproducing, which bat least both, at least comprise,

o a keyed input unit(10 C, etc.) for selecting a mode(abstract, "reading, writing, editing and archiving ..."), and a controller (12 C) for encoder and decoder an input

signal(user input) according for selecting a mode according to a keyed input(col. 11, lines 11-49; col. 12, lines 35-53; col. 10, lines 29-37; col. 9, lines 9-14);

- o a controller(Fig. 3, various controllers) which performs various functions as recited;

- o a data display(16 C) for displaying data searched according to the output of the controller(Fig. 14-4, "Display Memory Contents" & "READ & Display <start address> [ <end address> ]", "Abstract, Playback information, reading, writing and editing" & col. 6, lines 29-33; col. 11, lines 12-49), wherein the separable memory unit may be, "other than a disk or tape"; and associated with,

- o a separable storage unit(Fig. 1, "PSD 2 A", with at least interfaces, "2 A a & 2 A b", Fig. 3, 4, or 2 A, 33 c, 10 D, which may take one of the forms, such as, "Solid State, RAM, DRAM, EEPROM, FLASH etc...") for storing data from the data recording unit and outputting stored data through the reproduction unit(Bus 19 C to interface 27 C to the PSD {Portable Storage Device 33 C}, col. 4, lines 18-23, col. 4, line 65 to col. 5, line 15, col. 7, line 15- to col. 8, line 67-, col. 11, lines 11-65);

- o at least one interface(Fig. 1, a first and second SSRPD 1 & 2, interfaces "PSD I/F 1 A" & "PSD I/F 5 A"), which integrates the portable reproducing apparatus from a recording

apparatus(Fig. 1, "PSD", acting as an interface, between two SSRPDs), being detachable at either interface or both(2 A a or 2 A b), as desired and conceived, and D/A and A/D conversion means (col. 2, lines 1-7, "SSRPDs"), as clearly shown and/or disclosed.

After a careful consideration the amended claims, read on the recited claim language,

- o wherein, the recording unit(Fig. 1, SSRPD 1), when detached at (disconnected at, "2 A a"), from the reproducing unit (SSRPD 2), cannot reproduce data from the separable storage unit (PSD 2 A), due to no path to read stored data from to reproduce from the PSD;

- o wherein, the reproducing unit(2), when detached at (disconnected at "2 A b"), cannot record or receive data from the recording unit(1), due to no path to, "receive data", to the reproducing unit, data either originated from SSRPD 1, or the PSD memory.

Although both SSRPDs have the capability of R/R, when the interfaces are not connected, data cannot be transferred from the first to the second, when disconnected from the PSD, cannot transfer to or thru the PSD, one skilled in the art would need no more disclosure.

Regarding claim 2, Kaloi further discloses and meets all the limitations as recited:

- o a data selector(Fig. 3, "10 C", etc.) for selecting a mode(met in view of recording or reproduction, reading, writing editing, archiving etc...);

- o a system control for generating clock and control signals(Fig. 10-1, "play/record" etc., also "Figs. 10-2 to 10-7", & col. 7, lines 41-, recording/reproduction control, editing functions etc.), according to output of the data selector(col. 17, "addresses Fig. 14-4", col. 2, SMPTE etc.);

- o a data compressor(18 C, col. 7, lines 15 to col. 8, line 6) for converting an input analog signal to a digital and compressing;

- o a data storage unit control for generating data storage unit control signals and addresses according to the control of the system control and wherein the data storage unit for storing compressed data(col. 4, line 45 to col. 5, line 15; col. 6, lines 10-21); and

- o an interface(27 C) for performing data input/output operations between the data storage unit and the separable storage unit(internal memory "15 C and/or 13 C" and "external memory 33 C etc.") according to the control of the system controller.

Regarding claims 26, 30 and 42, video D/A for video(col. 7, lines 10-35, D/A conversion to analog signals, thru a

port/interface, which seems to be 22 C) and a display(col. 7, line 34, "audio/video monitors").

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaloi et al. (5,511,000) in view of Stockum et al. (5,301,240).

Claims 5 are analyzed and discussed with respect to the claims above, but claim 5 recited additional elements such as: wherein the separable storage unit includes:

o an array(33 C) and interface(27 C) for the removable memory card which is met by Kaloi, "solid state RAM/DRAM, EEPROM etc.", but, Kaloi, fails to disclose wherein the separable storage unit includes: an address generator and controller for generating addresses for specifying regions of the memory array.

Stockum, teaches the utilization of a memory card in Fig. 9, which includes an address generator(904), an interface(900) for the memory array(902) and a controller(CPU 910), used for video capture, the card is either a separate circuit board or card, which plugs into a backplane of a card cage 221(col. 5, lines 9-

60), which the interface associated with the memory card (Fig. 1, "RS 232, 9600 Bps") for connecting to an external computer system 131, which allows for transferring and displaying received/captured images from the card to the computer, as taught by Stockum.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kaloi by incorporating a memory card, including an address generator, controller, interface which allows for interfacing with a computer, as taught by Stockum.

5. Claims 6, 10, 20, 28, 39 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaloi et al.(5,511,000), as applied to the claims 1, 3 etc., above, further in view of Young et al.(US 5,479,266).

Regarding claims 6, 20, 28, 39 and 44, Kaloi as analyzed and discussed above meets all the limitations as claimed and further provide means for selectively reproducing information from the media using direct addresses associated with the memory and further can provide a display of memory contents(interpreted, as some sort of HEX address locations of the memory to be entered directly, data, no data), using identified start and end addresses associated with the Display Memory Contents(Fig. 14-4) and further suggests additional filing capabilities and



additional functionality through-out the disclosure(col. 6, lines 22-31), but, the claims recite reading and displaying, "a content table"(or Table of Content or "TOC") for the data stored(audio and/or video) in the storage unit when the keyed input is determined, as a search signal, which Kaloi fails to particularly and clearly disclose this limitation or feature.

Young et al. teaches providing a TOC associated with a recording media, wherein the TOC is generated on command(col. 8, line 22 to col. 9, line 43), wherein the content table is searched for upon request and provided to the user, wherein the TOC provides convenience to a user by, "eliminating the user from muddling through stretches of recordings trying to find what on the media", "prior art, with no TOC", therefore, providing a means to locate and playback recorded segments using the TOC provided, as taught by Young.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kaloi by incorporating a table of contents to locate and selectively reproduce recorded material, as taught by Young.

Regarding claim 10, Kaloi, discloses meets the limitations associated with the recited reproduction steps of accessing, the stored data in the separable storage unit, decoding (decompression) and D/A converting(33 C, as discussed above).

Response to Arguments

6. Applicant's arguments and comments and interview requested have been carefully considered, filed between 6/12/02 and 7/20/02, wherein the arguments against the amended claims required significant consideration by the examiner, the amendment fails to alter the reference applied but the examiner has applied grounds of rejection different than as previously applied in view of the amendments to all independent claims.

The examiner will offer upon a telephone request for an interview after this action in view of the re-reading of the reference against the amended claims.

After a careful re-reading of the Kaloi reference, since, the grounds of rejection have been altered to provide more emphasis with respect to Fig. 1 against the amended claims, the arguments fails to correspond the examiner's analysis and are considered to be partially moot in view thereof.

The examiner will conclude by referring, the newly presented arguments with respect to the amendments applied to the independent claims only.

The claims have been amended to additionally recite in almost all independent,

- o wherein, the recording unit(Fig. 1, SSRPD 1), when detached at (disconnected at, "2 A a"), from the reproducing unit (SSRPD 2), cannot reproduce data from the separable storage unit (PSD 2 A), due to no path to read stored data from to reproduce from the PSD;

o wherein, the reproducing unit(2), when detached at (disconnected at "2 A b"), cannot record or receive data from the recording unit(1), due to no path to, "receive data", to the reproducing unit, data either originated from SSRPD 1, or the PSD memory.

Although both SSRPDs have the capability of R/R, when the interfaces are not connected, data cannot be transferred from the first to the second, when disconnected from the PSD, cannot transfer to or thru the PSD, wherein it is interpreted that Kaloi anticipates all these features, as recited.

Contact Fax Information

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

(703) 872-9314, (for formal communication intended for entry)

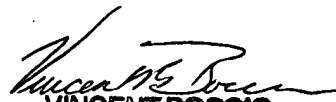
**or:**

(703) 308-5359, (for informal or draft communications, please label "PROPOSED" or "DRAFT")  
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Contact Information

7. Any inquiry concerning this communication or earlier communications should be directed to the examiner of record, Vincent F. Boccio (703) 306-3022.  
If any attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor, Andy Christensen (703) 308-9644.  
Any inquiry of a general nature or relating to the status of this application should be directed to Customer Service (703) 306-0377.

Primary Examiner, Boccio, Vin  
July 31, 2002

  
**VINCENT BOCCIO**  
**PRIMARY EXAMINER**